



TYNDALL
ENGINEERING & DESIGN, P.A.

1 919 773-0200 • 1 919 773-0488
280 Shipwash Drive, Suite 304 • Garner • North Carolina • 27529
www.tyndallengineering.com

November 12, 2019

Smith Woodworks
Brandon Smith
1607 Clayhole Road
Dunn, NC 28334
Email: scbsmith@yahoo.com

Reference: Engineering Services
190 Porch Swing Lane
Fuquay-Varina, NC 28334
Project No.: 1901-020640

As requested by the client, Tyndall Engineering & Design, PA (TE&D) was on site to observe the following items:

- 1) Existing stand-alone garage was built without a permit.

The following conclusions and recommendations were noted:

- 1) **Roof Framing/ceiling framing**
The existing roof framing consisted of trusses manufactured by others spaced at 24" O.C. with full bearing on the right and left side exterior walls. It is TE&D's opinion that the existing trusses are adequate to support the existing loading conditions.

Openings

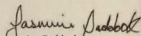
All existing openings framed with (2) 2x10 headers are adequate to support the existing loading conditions; however, the garage door header requires additional reinforcement. TE&D recommends installing Simpson TP37 tie plates between the header and top plate at each stud within the knee wall. The plates are to be centered on the header and top plate. (reader is referred to photo on page 3 for an example of locations) Note: Studs behind garage door support framing do not require Simpson tie plates.

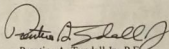
Foundation

The existing foundation consisted of a monolithic slab with turned down footings at the exterior walls. The footings extend below the required North Carolina frost depth requirement and are adequate to support the existing loading conditions.

Upon completion of the repairs, referenced above, the framed garage will provide the required support for the anticipated loading conditions. We appreciate the opportunity to assist you during this phase of the project. Should you need further assistance or require additional information please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design


Jasmine Paddock
JP | 1901-020640


Prentice A. Tyndall Jr., P.E.





TYNDALL
ENGINEERING & DESIGN, P.A.

1 800 773-0200 • 410 773-8638
230 Skijwash Drive, Suite 104 • Garner • North Carolina • 27529
www.tyndallengineering.com





TYNDALL
ENGINEERING & DESIGN, P.A.

290 Shipwash Drive, Suite 106 • Garner • North Carolina • 27529
• 919 773-1200 • • 919 773-9688
www.tyndallengineering.com

